

Date: Sun, 4 Sep 94 17:03:34 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #993
To: Info-Hams

Info-Hams Digest Sun, 4 Sep 94 Volume 94 : Issue 993

Today's Topics:

ANS-246 BULLETINS

Daily Summary of Solar Geophysical Activity for 31 August
Email newsletter for beginners! (2 msgs)
How to open an ICOM R-70? (Correction)
IPS Daily Report - 03 September 94
More Power vs. Better Antenna
NDN:Info-Hams Digest V94 #992
Need comments on 2 Ham books @ Radio Shack
Radio Shack HTX 202
SANTEC aka KDK PL QUESTION

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 5 Sep 94 00:30:35 GMT
From: news-mail-gateway@ucsd.edu
Subject: ANS-246 BULLETINS
To: info-hams@ucsd.edu

SB SAT @ AMSAT \$ANS-246.01
WISP DOWNLOAD STEPS FROM DRIG

HR AMSAT NEWS SERVICE BULLETIN 246.01 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 3, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-246.01

How To Download The AMSAT WISP MICROSAT Telemetry Program

The Dallas Remote Imaging Group (DRIG) BBS will carry the latest updates to the WISP Microsat packet radio programs on the system. Roy Welch (W0SL) will be uploading both the entire package and the Dynamic Link Library (DLL) updates to DRIG as soon as the executables are available.

The WISP files will be available to all users, even brand new members who have not yet fully registered.

To find the latest version, log on to the DRIG BBS in Dallas at:
214-394-7438

Your communications program parameters should be:

28.8Kbps to 2400 bps (1200 is too slow and not supported)

N parity
8 data bits
1 stop bit

Log on and if you are a new user, answer Yes to Register with us (if you answer no, you will not be able to download files). Answer the requested information (type in your own first name, last name, password, city, state, full address, telephone, etc) for our database for any new mailings or postings you would be interested in.

Date: Wed, 31 Aug 1994 22:16:20 MDT

From: agate!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!
unixg.ubc.ca!quartz.ucs.ualberta.ca!alberta!ve6mgs!usenet@ames.arpa

Subject: Daily Summary of Solar Geophysical Activity for 31 August

To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

31 AUGUST, 1994

/\

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 31 AUGUST, 1994

```

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 243, 08/31/94
10.7 FLUX=082.3 90-AVG=078 SSN=059 BKI=1101 2113 BAI=004
BGND-XRAY=B2.0 FLU1=7.6E+05 FLU10=1.5E+04 PKI=0111 2113 PAI=005
BOU-DEV=008,006,004,005,014,006,007,021 DEV-AVG=008 NT SWF=00:000
XRAY-MAX= C5.1 @ 0112UT XRAY-MIN= B1.6 @ 2237UT XRAY-AVG= B6.3
NEUTN-MAX= +002% @ 1555UT NEUTN-MIN= -002% @ 1930UT NEUTN-AVG= +0.3%
PCA-MAX= +0.1DB @ 1725UT PCA-MIN= -0.3DB @ 1325UT PCA-AVG= -0.0DB
BOUTF-MAX=55225NT @ 1303UT BOUTF-MIN=55189NT @ 1810UT BOUTF-AVG=55210NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+088,+000,+000
GOES6-MAX=P:+142NT@ 1904UT GOES6-MIN=N:-016NT@ 2301UT G6-AVG=+113,+029,-002
FLUXFCST=STD:084,086,090;SESC:084,086,090 BAI/PAI-FCST=005,005,005/008,008,008
KFCST=2123 3212 1223 2222 27DAY-AP=003,005 27DAY-KP=1000 1221 2212 1111
WARNINGS=*SWF
ALERTS=
!!END-DATA!!

```

NOTE: The Effective Sunspot Number for 30 AUG 94 was 30.3.
The Full Kp Indices for 30 AUG 94 are: 1+ 1- 1+ 1o 1o 2- 2- 1+
The 3-Hr Ap Indices for 30 AUG 94 are: 5 3 5 4 4 7 6 5
Greater than 2 MeV Electron Fluence for 31 AUG is: 3.9E+06

SYNOPSIS OF ACTIVITY

Solar activity returned to a low level. Region 7773 (S08E61) produced frequent C-class flares. Some real growth occurred (not just lack of foreshortening) in this region. Mixed magnetic polarities were visible in the center of the region and a weak delta may be forming there. However, the region is basically bipolar. Toward the end of the period, the background x-ray flux was decreasing which indicates a slight cooling of Region 7773.

Solar activity forecast: solar activity should be low to moderate. Region 7773 retains the capability of producing isolated M-class flares. An X-class flare from this region is a slight possibility. Old Region 7765 is due back to the east limb on 03 Sep. This region produced 5 M-class and 10 C-class flares last rotation but was decaying in the western hemisphere and is not expected to be as active this rotation.

The geomagnetic field was mostly quiet during the period.

Geophysical activity forecast: the geomagnetic field should be quiet to slightly unsettled for the next three days.

Event probabilities 01 sep-03 sep

Class M	50/50/50
Class X	10/10/10
Proton	05/05/05
PCAF	Green

Geomagnetic activity probabilities 01 sep-03 sep

A. Middle Latitudes

Active	10/10/10
Minor Storm	01/01/01
Major-Severe Storm	01/01/01

B. High Latitudes

Active	15/20/20
Minor Storm	05/05/05
Major-Severe Storm	01/01/01

HF propagation conditions were normal over all regions. No significant changes are expected over the next 3 days, through 03 September inclusive. A gradual increase in MUFs is expected over the next week in response to enhanced ionizing radiation from Region 7773 and possible additional enhancements from old Region 7765 if it returns to the east limb. There is a real risk of SWFs on daylight paths during possible flare activity from Region 7773.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

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REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 31/2400Z AUGUST

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7771	N06E36	122	0090	HSX	02	001	ALPHA	
7772	S23W24	182	0030	CRO	06	006	BETA	
7773	S08E60	098	0470	EHC	14	022	BETA	
7770	S09W67	225					PLAGE	

REGIONS DUE TO RETURN 01 SEPTEMBER TO 03 SEPTEMBER

NMBR	LAT	LO
7765	S12	036

LISTING OF SOLAR ENERGETIC EVENTS FOR 31 AUGUST, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP	SWF
NO EVENTS OBSERVED										

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 31 AUGUST, 1994

NO EVENTS OBSERVED

INFERRED CORONAL HOLES: LOCATIONS VALID AT 31/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
02	N20E69	N10E43	N31E24	N43E53	110	ISO	POS	019	10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
30 Aug:	0038	0040	0103		SF	7773	S11E89			
	0135	0154	0205	C1.7	SF	7773	S10E81			
	0539	0544	0553	C1.5						
	0633	0638	0644	C1.8						
	0752	0833	0852	M1.1	SF	7773	S06E82			
	1007	1017	1028	C1.4						
	1033	1037	1041	M1.4	SF	7773	S08E83			
	1156	1200	1205	C1.0						
	1300	1310	1316	C1.0						
	1449	1457	1504	C2.0						
	1534	1551	1625	C2.7	SF	7773	S06E78			
	1704	1704	1709		SF	7773	S08E78			
	1711	1716	1723		SF	7773	S08E77			
	1740	1744	1748		SF	7773	S08E79			
	1926	1954	2000	C6.2	SF	7773	S09E83			
	2118	2122	2124	C2.4						
	2242	2258	2311	C2.7						

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7773:	3	2	0	9	0	0	0	0	009	(52.9)
Uncorrelated:	8	0	0	0	0	0	0	0	008	(47.1)

Total Events: 017 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date Begin Max End Xray Op Region Locn Sweeps/Optical Observations

NO EVENTS OBSERVED.

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II = Type II Sweep Frequency Event
III = Type III Sweep
IV = Type IV Sweep
V = Type V Sweep
Continuum = Continuum Radio Event
Loop = Loop Prominence System,
Spray = Limb Spray,
Surge = Bright Limb Surge,
EPL = Eruptive Prominence on the Limb.

** End of Daily Report **

Date: 4 Sep 1994 03:13:19 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!
mailer.acns.fsu.edu!freenet3.scri.fsu.edu!freenet1.scri.fsu.edu!
twright@network.ucsd.edu
Subject: Email newsletter for beginners!
To: info-hams@ucsd.edu

rbellville@aol.com (RBellville) writes:

> ATTENTION RADIO NEWCOMERS!

>

> Are you interested in radio communications but don't have
> enough information? Do you have questions but no one to
> ask? Are you looking for a publication geared toward the
> novice radio enthusiast?

>

>
> ***** FIRST CONTACT *****
>
> "First Contact" is a newly forming publication. An
> electronically distributed email newsletter via the Internet
> for the beginner. Here is a forum to get the information
> you're craving. Get involved in this fascinating hobby!
> Scanning, ham radio, shortwave listening, CB radio,
> General Mobile Radio System (GMRS), etc. will all be
> covered.
>
> You input is essential to the success of this publication. I
> need to know what you want to know and what subjects
> you want covered in the newsletter. I will attempt to
> publish on a monthly basis, possible bi-weekly if there is
> enough interest.
>
> The only "cost" on your part is to fill out the following
> subscription form completely. A classified section is being
> contemplated with a small fee to advertise. Hard copies
> will be available to those without email access. Please
> contact me for details.
>
> Everyone is welcomed to subscribe whether you've never
> turn on a radio or whether you're an old-timer. I am
> looking for authors to contribute short articles on the
> subjects you request.
>
> So let's get "First Contact" off to a good start! Get your
> radio information via email. Subscribe NOW!
>
>
>
>
> Please email this and any correspondence to
> rbellville@aol.com or:
>
> Rob Bellville, N1NTE
> PO Box 515
> Millbury, MA 01527-0515
>
> Thanks!
>
>
> ----->cut
> here<-----
>
> Name:Tim Wright

> Ham callsign (if any):KD40VM

> Email address:

t.wright@msuacad.morehead-st.edu

> Mailing address:

1720 Flemingsburg Rd. #37

Morehead, ky. 40351

>

> Radio interests (Scanning, ham radio, SWL, CB, etc.):

Ham Radio/Scanning/Police Communications

>

> Years involved in radio:

roughly: 14 years +

Are you experienced in any area of radio

> communications?:

E-911 communications

> If yes, describe and are you interested in being an

> author of short articles?:

I may be interested.

>

> Other radio publications regularly read:

QST.

>

>

> What specific subjects or questions would you like to read

> about? (Give as many as you can, please!):

WOW, deep subject

>

>

>

> How much do you think is fair to pay for classified

> advertising in this newsletter?

>

>

> Answer "YES" if you wish to have your mailing address

> made available to radio related dealers and man-

> ufacturers to send you their product info. If you answer

> "NO" all your info will remain confidential:

I don't care....

>

> Please tell me any other comments that you have:

Good luck and God Bless.

>
>
>

> -----Please email to rbellville@aol.com-----
--

Tim Wright KD4OVM | T.Wright@msuacad.morehead.edu | Morehead State University
| TWright@freenet.fsu.edu | Tallahassie Freenet Service
| AR098@yfn.ysu.edu | Youngstown Ohio Freenet Service
| KD4OVM@WSU.N8FOW.AMPR.ORG | Try one, I'll get it.

Date: 3 Sep 1994 19:57:02 -0400
From: agate!howland.reston.ans.net!swiss.ans.net!newstf01.cr1.aol.com!
search01.news.aol.com!not-for-mail@ames.arpa
Subject: Email newsletter for beginners!
To: info-hams@ucsd.edu

ATTENTION RADIO NEWCOMERS!

Are you interested in radio communications but don't have enough information? Do you have questions but no one to ask? Are you looking for a publication geared toward the novice radio enthusiast?

***** FIRST CONTACT *****

"First Contact" is a newly forming publication. An electronically distributed email newsletter via the Internet for the beginner. Here is a forum to get the information you're craving. Get involved in this fascinating hobby! Scanning, ham radio, shortwave listening, CB radio, General Mobile Radio System (GMRS), etc. will all be covered.

You input is essential to the success of this publication. I need to know what you want to know and what subjects you want covered in the newsletter. I will attempt to publish on a monthly basis, possible bi-weekly if there is enough interest.

The only "cost" on your part is to fill out the following subscription form completely. A classified section is being contemplated with a small fee to advertise. Hard copies will be available to those without email access. Please

contact me for details.

Everyone is welcomed to subscribe whether you've never turn on a radio or whether you're an old-timer. I am looking for authors to contribute short articles on the subjects you request.

So let's get "First Contact" off to a good start! Get your radio information via email. Subscribe NOW!

Please email this and any correspondence to
rbellville@aol.com or:

Rob Bellville, N1NTE
PO Box 515
Millbury, MA 01527-0515

Thanks!

----->cut
here<-----

Name:
Ham callsign (if any):
Email address:
Mailing address:

Radio interests (Scanning, ham radio, SWL, CB, etc.):

Years involved in radio:
Are you experienced in any area of radio
communications?:
 If yes, describe and are you interested in being an
 author of short articles?:

Other radio publications regularly read:

What specific subjects or questions would you like to read
about? (Give as many as you can, please!):

How much do you think is fair to pay for classified advertising in this newsletter?

Answer "YES" if you wish to have your mailing address made available to radio related dealers and manufacturers to send you their product info. If you answer "NO" all your info will remain confidential:

Please tell me any other comments that you have:

-----Please email to rbellville@aol.com-----

Date: Sat, 3 Sep 94 18:47:22 PDT
From: pa.dec.com!synchrods.com!daniel@decwrl.dec.com
Subject: How to open an ICOM R-70? (Correction)
To: info-hams@ucsd.edu

In Article: 65906 of rec.radio.amateur.misc, I wrote

>The phone plug that I was using with my ICOM R-1 had the bad
>idea of breaking inside the audio outlet. I tried to remove this
>tip with a pair of tweezers but no avail. I will have to open
>the whole receiver, so I have a few questions for people who
>know about this receiver:
>
>1) I see LOTS of screws, which ones I really have to remove?
>2) Do I need to remove the knobs in order to access this audio
> plug?
>3) Is this audio outlet a sealed unit, or I can access the broken
> tip from the side?
>4) Any other tips would be greatly appreciated.
>
>Thanks in advance. Regards,
>

>Dan (daniel@synchronods.com).

Sorry I meant R-70, not R-1. Thanks again.

Dan

Date: Sat, 3 Sep 1994 23:33:40 GMT
From: agate!howland.reston.ans.net!EU.net!sunic!trane.uninett.no!nac.no!
ifi.uio.no!wabbit.cc.uow.edu.au!metro!ipso!rwc@ames.arpa
Subject: IPS Daily Report - 03 September 94
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT
ISSUED AT 03/2330Z SEPTEMBER 1994 BY IPS RADIO AND SPACE SERVICES
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.
SUMMARY FOR 03 SEPTEMBER AND FORECAST FOR 04 SEPTEMBER - 06 SEPTEMBER

1A. SOLAR SUMMARY

Activity: low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : NA

GOES satellite data for 02 Sep

Daily Proton Fluence >1 MeV: 1.3E+05

Daily Proton Fluence >10 MeV: 1.5E+04

Daily Electron Fluence >2 MeV: 2.2E+06

X-ray background: B1.4

Fluence (flux accumulation over 24hrs)/ cm2-ster-day.

1B. SOLAR FORECAST

	04 Sep	05 Sep	06 Sep
Activity	Low	Low	Low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number for 04 Sep: 102/50
COMMENT: Two regions on the solar disk appear to have M class flare
potential.

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: quiet to unsettled

Estimated Indices :	A	K	Observed A Index	02 Sep
Learmonth	8	3222 2222		
Fredericksburg	6			5

Observed Kp for 02 Sep: 3311 2111

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
04 Sep	8	Quiet
05 Sep	8	Quiet to unsettled
06 Sep	12	Unsettled

COMMENT: Active levels, with minor storm periods during local night expected 7-10 September due to coronal hole.

3A. GLOBAL HF PROPAGATION SUMMARY

LATITUDE BAND

DATE	LOW	MIDDLE	HIGH
03 Sep	normal	normal	normal

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

LATITUDE BAND

DATE	LOW	MIDDLE	HIGH
04 Sep	normal	normal	fair
05 Sep	normal	normal	fair
06 Sep	normal	normal	fair

COMMENT: HF Comms are expected to be degraded after 6 September.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

Observed

DATE	T-index	MUFs at Sydney
03 Sep	32	near predicted monthly values

Predicted Monthly T-index for September: 20

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
04 Sep	30	Near predicted monthly values
05 Sep	30	Near predicted monthly values
06 Sep	30	Near predicted monthly values

COMMENT: Spread F observed during local night. HF comms conditions are expected to become degraded after 6 September.

--

IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
RWC Duty Forecaster tel: +61 2 4148329	PO Box 5606
Recorded Message tel: +61 2 4148330	West Chatswood NSW 2057
email: rwc@ips.oz.au fax: +61 2 4148331	AUSTRALIA

Date: 3 Sep 1994 02:13:13 GMT

From: elroy.jpl.nasa.gov!swrinde!howland.reston.ans.net!newsserver.jvnc.net!
raffles.technet.sg!solomon.technet.sg!nunas@ames.arpa
Subject: More Power vs. Better Antenna
To: info-hams@ucsd.edu

Paul Antaki (pantaki@prodigy.bc.ca) wrote:

: I'm trying to make the most of a battery pack on my HT and I find that I
: need to transmit at high power (5 watts) to hit some repeaters I'm
: interested in. Someone once mentioned to me that it would be better to
: use a better antenna (telescopic perhaps) instead of higher power. Would
: someone perhaps be able to explain the relationship between the antenna
: gain and output power?

: Many Thanks,

: Paul VE7ZPA
: -----

: Paul Antaki
: Prodigy Technologies Corporation Phone: (604) 687-4636
: 1100-1190 Hornby Street Fax: (604) 687-1671
: Vancouver, B.C. e-mail: pantaki@prodigy.bc.ca
: V6Z 2K5

If you use more power, then you will talk our farther. Now, if ther
person you want to talk to also has lots of power, then this will work
fine since we will assume that this puts him in talk-back range.

But, if you increase power and the person you wish to talk to was very
weak, he will hear you better but you will wtill hear him weak.

On the other hand, if you put in a gain antenna, that is a bilateral
device. It has the dffect of increasing your power (called effective
radiated power), just as upping the tx output does. BUT, the incoming
signals *are also amplified by the same amount*. So, the signal that
might be weak coming in will now be stronger.

Another consideration is the amount of gain you have now vs how much you
want. For example, suppose you are seeking to double your output power.
This equals 3 dB gain. Getting this additional gain over a rubber ducky
is a piece of cake, even a simple home-made co-linear omni would do it.
But, if you already are using, say a 9dB gain omni, getting another 3dB
might then call for using a directional antenna. Maybe you don't want
this complication (i.e., you might still want to be omni). So, if you
are already at the max from your omni antenna, the best bet might be to
up the power, especially if those you talk to have higher erp than you do.

Related to the above, if you already have a directional antenna, the more
gain it has, the harder it is to get an additional 3dB. So, the antenna

gets rapidly bigger and bigger the more gain you want.

So, to sum up, if you find that your station is rather low powered compared to those to whom you are talking, add the increase in the TX. This equalizes the talk back. If the reverse is true, then the gain antenna might be the best bet.

Finally, this is a rather simple treatment. There are so many variables. Like, how much power (poser =weight and bulk) do you want. How big an antenna can you go with. How high is your antenna now (higher = farther line of sight).

I hope this short and rather unscientific reply gives you some food for thought.

Maurice 9V1ZS

Date: 4 Sep 94 19:24:49 GMT
From: news-mail-gateway@ucsd.edu
Subject: NDN:Info-Hams Digest V94 #992
To: info-hams@ucsd.edu

Your mail to the Microsoft Mail Server could not be fully delivered! Reasons listed below! It has been deleted.

Date: 3 Sep 1994 12:13:26 -0500
From: elroy.jpl.nasa.gov!usc!cs.utexas.edu!geraldo.cc.utexas.edu!
sylveste.cc.utexas.edu!not-for-mail@ames.arpa
Subject: Need comments on 2 Ham books @ Radio Shack
To: info-hams@ucsd.edu

I am new to Ham Radio and am unsure where to start from. I found in Radio Shack 2 books "Now you are talking" and "No Code Plus". I know that the 2nd has the test pool, but I was told that I need the first one to build some background knowledge in Ham Radio and electronics.

I do not have any background in electronics other than computers so what should I do? Get #1, #2 or both, and maybe why?

I am in the process of reading the FAQ right now but I need to solve this question soon.

Thanks a lot.
Dino Kouroushiaklis

In article <9409030136391230@ectech.com> clint.bradford@ectech.com (Clint Bradford) writes:

[Long advertisement deleted]

So you're somehow involved in the production of this rig and you're using this newsgroup to advertise? Might you stand to gain financially from this article? Hmmm...

How do you activate the PL on a Santec mf-240 xcvr? I don't have the manual for it.

Thanks and 73 de A.C. in Houston.

--
A. C. Spraggins
South Coast Computing Services, Inc.
P. O. Box 270355

acs@nuchat.sccsi.com
w5ezm@sugarland.ampr.org
(713) 917-5000

Houston, TX 77277-0355

(713) 917-5005 fax

Date: (null)
From: (null)
Z WISP 7

The Z is a Zippy search to find the character string WISP

7 is the Microsat telemetry program files area

A listing of all of the WISP programs in File Areas 7 (Microsats)
will be displayed.

Picked the NEWEST one by the name WISPNEW.ZIP

Pick up only the latest changes by the name WISPUPDT.ZIP

Use Zmodem or any other binary protocol to download!

You may download the file from the Main menu by typing the
following:

D WISPNEW.ZIP (type in this WISP filename for a new complete file)
D WISPUPDT.ZIP (type in this WISP filename for the latest updates only)

If it asks for a Protocol, the fastest is Zmodem (xmodem, ymodem, kermit,
also work o.k.)

The system will come back with a listing of files you want to download.
Just hit enter, and if you want to log off immediately after the download
is complete, simply type G for goodbye in the command line when asked.

=====

BULLET90 is the file to download for NASA 2-line Keps (updated weekly)

BULLET93 is the file to download for AMSAT style keps (updated weekly)

If you get industrious, also download the DRIG informatin file:
DRIGINFO.ZIP and DRIGLIST.ZIP which is a COMPLETE listing of all
7 gigabytes of files on the DRIG BBS! And of course, any problems, simply
enter C for Comment to Sysop and will be glad to help you out!

Dallas Remote Imaging Group
Satellite Imagery BBS
214-394-7438

info@drig.com
1:124/6509

Voice 214-394-7325
FAX 214-492-7747
BBS 214-394-7438

Internet FTP and Telnet 56Kbps lines are being installed in November
for direct access over the Internet!

/EX
SB SAT @ AMSAT \$ANS-246.01
AMSAT-NA SPACE SYMPOSIUM AGENDA

HR AMSAT NEWS SERVICE BULLETIN 246.01 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 3, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-246.01

AMSAT-NA Space Symposium & Annual Meeting Scheduled For 7-9 Oct '94

1994 AMSAT-NA Annual Meeting
and Space Symposium
Holiday Inn, Orlando International Airport, Florida
October 7-9, 1994

Friday, October 7, 1994

11:00 - 5:00 PM Registration - International Ballroom Entrance
1:00 - 5:00 PM Session A - Mission Status Briefings - International Ballroom
1:00 - 1:30 PM Frank Bauer: "SAREX Update '94"
1:30 - 2:00 PM Joan Freeman KD4SRD: "A SAREX Case Study"
2:00 - 2:45 PM Dennis Wingo KD4ETA: "SEDSAT1 Update SEDSAT2; Amateur
Radio in Lunar Orbit"
2:45 - 3:00 AM Break
3:00 - 3:30 PM Dan Schultz N8FGV: "Hubble Space Telescope Photographs"
3:30 - 4:00 PM Robert Diersing N5AHD: "DOVE Back On the Air"
4:00 - 4:30 PM David Liberman XE1TU: "UNAMSAT: An Operational Guide"
4:30 - 5:00 PM Philip Chien KC4YER: "Launch Opportunities Beyond Phase-3D"

Saturday, October 8, 1994

7:30 - 8:00 AM Registration - International Ballroom Entrance
8:00 - 11:45 AM Session B - Orbital Science and Systems - International
Ballroom
8:00 - 8:05 AM Bill Tynan W3X0: "Welcome & Introduction"
8:05 - 8:10 AM Al Brinkerhoff WB5PMR: "Symposium Opening Remarks & Orientation"
8:10 - 9:00 AM Prof. Robert Twiggs: "Investigating the Integrated Control of

Payloads: The Stanford SQUIRT MICRO-Satellite Program"

9:00 - 9:30 AM Keith Pugh W5IU "Quiktrak for Windows"

by Bob McGwier N4HY

9:30 - 10:00 AM Tom Clark W3IWI: "Where Am I and What Time Is It?"

10:00 - 10:15 AM Break

10:15 - 10:45 AM Walter K. Daniel KE3HP: "Use of Star Cameras for Attitude Determination of Amateur Radio Satellites"

10:45 - 11:15 AM Doug Loughmiller K05I "UoSAT: The Successful Evolution..."

11:15 - 11:45 AM Greg Jones WD5IVD: "The TAPR/AMSAT DSP-93 Project" with Bob Strickland N5BRG, Robert Diersing N5AHD, and Frank Perkins WB5IPM

11:45 - 1:00 PM Lunch Break

1:00 - 5:00 PM Session C - P3D Design Review - International Ballroom

1:00 - 1:05 PM Bill Tynan W3X0: "Phase 3D; A New Era for Amateur Satellites"

1:05 - 1:35 PM Dick Jansson WD4FABP3D "Mechanical and Thermal Design"

1:35 - 2:05 PM Dr. Karl Meinzer DJ4ZC: "P3D RF Subsystems and Attitude Control"

2:05 - 2:30 PM Stan Wood WA4NFY: "Antenna Designs of the P3D Spacecraft"

2:30 - 2:45 PM Lyle Johnson WA7GXD: "The P3D IHU and RUDAK-U"

2:45 - 3:00 PM Peter Guelzow DB20S: "The P3D RUDAK-E"

3:00 - 3:15 PM Break

3:15 - 3:30 PM Dick Daniels W4PUJ: "The P3D Propulsion System"

3:30 - 4:10 PM Tom Clark W3IWI: "The P3D GPS Experiment"

4:10 - 4:20 PM WA1UVP & W3IWI: "The P3D GPS Hardware"

4:20 - 4:30 PM N3EUA, KD9KX, WA7GXD: "The P3D GPS Computer System"

4:30 - 4:40 PM W3IWI, WA5FXE: "The P3D GPS Antennas"

4:40 - 4:55 PM Doug Loughmiller G0SYX: "AMSAT-UK Contributions to P3D"

4:55 - 5:00 PM Steve Park WB90EP: "Symposium Concluding Remarks"

6:00 - 7:00 PM Social Hour and Cash Bar - International Ballroom Lobby

7:00 - 11:00 PM Banquet and Annual Meeting - International Ballroom

Speaker: Dr. Paul Shuch N6TX, "The Search for Dark Matter"

Sunday, October 9, 1994

7:00 - 9:00 AM Area Coordinators Breakfast - Continental Room

9:00 - 2:00 PM Bus Tours to the P3D Integration Facility

10:00 AM Open Board of Directors Meeting - Continental Room

9:00 - 1:30 PM Session D - Satellite Operating - International Ballroom

9:00 - 9:30 AM Keith Baker KB1SF: "Beginners Forum"

9:30 - 10:00 AM Robert Diersing, N5AHD: "Examination of AO-16 and UO-22 Activity"

10:00 - 10:30 AM Dr. Paul Shuch N6TX: "Orbital Analysis by Sleight

of Hand"

10:30 - 11:15 AM Ed Krome, KA9LNV: "Basics of Mode-S Operation &
Feeds for Mode-S Dish Antennas"

11:15 - 11:45 AM Doug Varney WA1UVP: "MMICs at S-Band"

11:45 - 12:15 PM Gould Smith WA4SXM: "Beginners Guide to Radio Sputniks"

12:15 - 12:45 PM Ned Stearns AA7A: "A Major Field Day Satellite
Operation"

12:45 - 1:00 PM Roy Welch W0SL: "AMSAT Software"

1:00 - 1:30 PM John Hansen WA0PTV: "Software for the Digital Birds"

Note: Eligibility for prizes and attendance at the Annual Meeting does not require purchase of a Banquet Ticket.

Registration and information about hotel rates and discounts can be obtained by calling AMSAT-NA Office Manager, Martha Saragovitz (NOCALL) by phone or writing to:

AMSAT
850 Sligo Ave., Suite 600
Silver Spring, MD 20910
Telephone: (301) 589-6062
FAX: (301) 608-3410

Don't delay in making your reservations and registering for what will be a great AMSAT Symposium!

/EX
SB SAT @ AMSAT \$ANS-246.03
WEEKLY OSCAR STATUS REPORTS

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Weekly OSCAR Status Reports: 27-AUG-94

AO-13: Current Transponder Operating Schedule:
M QST *** AO-13 TRANSPONDER SCHEDULE *** 1994 Jul 11 - Sep 12
Mode-B : MA 0 to MA 90 | Omnis : MA 230 to MA 30
Mode-BS : MA 90 to MA 120 |
Mode-S : MA 120 to MA 122 |<- S beacon only
Mode-S : MA 122 to MA 145 |<- S transponder; B trsp. is OFF
Mode-S : MA 145 to MA 150 |<- S beacon only
Mode-BS : MA 150 to MA 180 | Blon/Blat 180/0
Mode-B : MA 180 to MA 256 | Move to attitude 230/0, Sep 12

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N QST *** AO-13 TRANSPONDER SCHEDULE *** 1994 Sep 12 - Dec 19
Mode-B : MA 30 to MA 150 |<- OFF Oct 22 - Nov 07 for eclipses

Mode-B : MA 150 to MA 190 | max duration 2h 12m
Mode-BS : MA 190 to MA 218 |
Mode-S : MA 218 to MA 220 |<- S beacon only
Mode-S : MA 220 to MA 230 |<- S transponder; B trsp. is OFF
Mode-B : MA 230 to MA 30 | Alon/Alat 230/0
Omnis : MA 250 to MA 140 | Move to attitude 180/0, Dec 19

The battery charge state is of paramount importance during the eclipse seasons. As always the command team may have to have to make temporary changes to the published schedule. In that case we will try to minimize the inconvenience, setting Mode-B OFF from MA 230-256 in the first instance.

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[G3RUH/DB20S/VK5AGR]

AO-16: AO-16 is working well. [WH6I]

KO-23: KO-23 is working well. [WH6I]

KO-25: KO-25 seems again to be in one of its "deaf" modes. The BBS seems to be there but WH6I can't seem get it to respond at all and he never sees anyone in the link. [WH6I]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ N0QCU. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

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End of Info-Hams Digest V94 #993
